

Title (en)
Waste heat recovery system.

Title (de)
Abhitzesystem.

Title (fr)
Système de récupération.

Publication
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Application
EP 88103380 A 19880304

Priority
JP 4879387 A 19870305

Abstract (en)
A waste heat recovery boiler comprising heat exchange rate switching means (34,35,36) for controlling the rate of heat exchange between an exhaust gas (G) and feedwater (WF) in a heat exchanger (5) by changing the state of the feedwater (WF) in accordance with the concentration of sulfur oxides in the exhaust gas (G), thereby maintaining the temperature at which low temperature corrosion due to the exhaust gas (G) is prevented in a downstream portion of the heat exchanger (5) in the direction in which the exhaust gas (G) flows. Accordingly, it is possible to achieve the maximum efficiency of heat recovery since the phenomenon of steaming in the heat exchanger (5) is eliminated irrespective of whether the kind of exhaust gas is a dirty gas or a clean gas.

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F01K 23/10; F22B 1/18

IPC 8 full level
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CPC (source: EP US)
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Cited by
EP0582898A1; CN103776040A; CN104696937A; CN102444883A; EP1193373A1; CN109268094A; CN103940246A; KR20150119075A; CN1044403C; CN104197311A; GB2460607A; GB2460607B; EP0728916A1; CN1071839C; CN1094557C; CN110030547A; CN1313714C; EP2940381A1; JP2017514097A; US7650755B2; US6874322B2; US10393369B2; US6823674B2; WO2008121689A3; WO0227154A1; WO9324790A1; WO0208577A1; WO9910627A1; WO2014139765A3; WO2015165668A1; US6237321B1; US6363711B2; US10907822B2; EP2940381B1

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